

We Claim

- 630 / 1. A process for preparing polymeric nanoparticles comprising adding reactants to a vessel and reacting said reactants to form crosslinked polymeric nanoparticles wherein said polymeric nanoparticles have a mean particle diameter of from 1 to 200 nm and wherein the process is emulsion free and wherein the process yields a solids level of polymeric nanoparticles equal to or greater than 30 weight %.
- 635 2. The process according to claim 1 wherein the process is selected from the group consisting of a batch process, a semi continuous process, and a continuous process.
- 640 3. The process according to claim 1 wherein the process is selected from the group consisting of solution polymerization, dispersion polymerization, suspension polymerization, and precipitation polymerization.
- 645 4. The process according to claim 1 comprising adding the reactants to the reaction mixture in at least two aliquots.
5. The process according to claim 1 comprising reactants selected from the group consisting of monomers and functional polymers comprising reactive groups.
- 650 6. The process according to claim 1 comprising reactants selected from the group consisting of organic materials, inorganic materials and mixtures thereof.
- 655 7. Crosslinked polymeric nanoparticles produced according to the process in claim 1.
8. The process according to claim 1 wherein the process yields a solids level of polymeric nanoparticles equal to or greater than 35 weight%.

9. The process according to claim 1 wherein prior to completion of the adding of
660 the reactants there is a time interval where no reactant is being fed.

10. The process according to claim 9 wherein the time interval is 1 second or
more.

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